

NAME: \_\_\_\_\_

CS232 Lab6  
fa2020  
streller

PROBLEM STATEMENT:

using 2-3 trees

CODE:

Compile and run the program created by the tree23.cpp file.  
Then do the following exercises.

On the separate sheet of paper, draw the 2-3-Tree after the number 200 has been added.  
Show all the fields of each node, except for the parent pointer field.

On the separate sheet of paper, draw the final 2-3-Tree after all the numbers  
have been added at the end of the program.

Sections of the program have been labeled with the labels shown below.  
For each labeled section, state the purpose of the section:

ADD: CASE 1 \_\_\_\_\_

ADD: CASE 2 \_\_\_\_\_

ADD: CASE 3 \_\_\_\_\_

ADD: CASE 4 \_\_\_\_\_

ADD: CASE 5 \_\_\_\_\_

ADD BRANCH CASE 1 \_\_\_\_\_

ADD BRANCH CASE 2 \_\_\_\_\_

ADD BRANCH CASE 3 \_\_\_\_\_

ADD BRANCH CASE 4 \_\_\_\_\_

ACTION AT PARENT A \_\_\_\_\_

ACTION AT PARENT B \_\_\_\_\_

ACTION AT PARENT C \_\_\_\_\_

ACTION AT PARENT D \_\_\_\_\_

First column: fill in the integer that is added to the tree.

Third column: fill in the value of the variable 'middle' used in the split function, if any.

Fifth column: fill in the label number for the code section of the split function that is executed in the portion of the function that performs actions at the parent node level.

[illegible]

DELIVERABLES:

these sheets with requested trees IN A ZIP FILE, named lastname\_cs232lab6  
**Any other file(s) submitted will receive a 5 point deduction for each file.**

Due Date : 9am 20 October 2020  
Submit to BB: cs232Lab6Answer.